PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

•			
To: PAUL D. GREELEY	PCT		
OHLANDT, GREELEY, RUGGIERO & PERLE, L.L.P. ONE LANDMARK SQUARE, 10TH FLOOR STAMFORD, CT 06901-2682	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 17 OCT 20114		
Applicant's or agent's file reference 40030647-02	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US04/38269	International filing date (day/month/year) 16 November 2004 (16.11.2004)		
Applicant AGILENT TECHNOLOGIES, INC.			
The applicant is hereby notified that the international sea Authority have been established and are transmitted here	arch report and the written opinion of the International Searching with.		
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):			
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international OCT 21 2005		
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile No.	O, 34 chemin des Colombettes		
For more detailed instructions, see the notes on the	accompanying sheet. RUGGIERO & PERLE		
 The applicant is hereby notified that no international sea Article 17(2)(a) to that effect and the written opinion of 	rch report will be established and that the declaration under the International Searching Authority are transmitted herewith.		
3. With regard to the protest against payment of (an) add	itional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has be applicant's request to forward the texts of both the	een transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.		
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
 Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International 			
Bureau. If the applicant wishes to avoid or postpone publication	n, a notice of withdrawal of the international application, or of the in Rules 90bis. 1 and 90bis. 3, respectively, before the completion of		
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
•	nonths (or later) will apply even if no demand is filed within 19		
	e applicable time limits, Office by Office, see the PCT Applicant's		
Name and mailing address of the ISA/ US	Authorized officer Jylun Deul For		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P. O. Boy 1450	Khanh Van Nguyen		

P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

Telephone No. 571-272-1767

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 40030647-02	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.			
,	nternational filing date (day/m 6 November 2004 (16.11.200	* ' '	st) Priority Date (day/month/year) vember 2003 (19.11.2003)	
Applicant AGILENT TECHNOLOGIES, INC.				
1. Basis of the Report a. With regard to the language, the international app a translation of the international app a translation furnib. With regard to any nucleotide Certain claims were found und Unity of invention is lacking (With regard to the title, the text is approved as submitted the text has been established by	f a total ofsheets. by a copy of each prior art destructional search was carried plication in the language in whiternational application intosheets. cand/or amino acid sequence assearchable (See Box No. II) (See Box No. III)	ocument cited in this out on the basis of: nich it was filed. rnational search (Rules	report, which is the	
	according to Rule 38.2(b), by		pears in Box No. IV. The applicant submit comments to this Authority.	
	oplicant. hthority, because the applicant hthority, because this figure be	failed to suggest a figu		

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38269

		······································		
IPC(7)	SIFICATION OF SUBJECT MATTER : H03F 3/45			
	US CL : 330/255, 262, 263, 265, 267			
	International Patent Classification (IPC) or to both na	tional classification and IPC		
B. FIEL	DS SEARCHED			
	cumentation searched (classification system followed to 30/255, 262, 263, 265, 267	oy classification symbols)		
Documentation	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)				
	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
Α	US 6,262,633 A (CLOSE) 17 July 2001 (17.07.200	1), columns 5-6, lines 30-29.	1-7	
A	US 6,433,635 A (WATANABE) 13 AUGUST 2002	(13.08.2002), columns 7-8, lines 1-33.	1-7	
		·		
		Ì		
Further	documents are listed in the continuation of Box C.	See patent family annex.		
* S	pecial categories of cited documents:	"T" later document published after the inter- date and not in conflict with the applica		
	t defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inver		
-	plication or patent published on or after the international filing date	"X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone		
	t which may throw doubts on priority claim(s) or which is cited to		himed invention connect he	
establish specified	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the c considered to involve an inventive step		
"O" documen	t referring to an oral disclosure, use, exhibition or other means	with one or more other such documents obvious to a person skilled in the art	s, such combination being	
	t published prior to the international filing date but later than the	"&" document member of the same patent f	amily	
	ate claimed			
	ctual completion of the international search	Date of mailing of the international search of the interna	ch report	
	r 2005 (13.09.2005)	Authorized officer	11/2 724	
	ailing address of the ISA/US il Stop PCT, Attn: ISA/US	Lyour D	we for	
	mmissioner for Patents	Khanh Van Nguyen 🏻 🅖		
	D. Box 1450 exandria, Virginia 22313-1450	Telephone No. 571-272-1767		
	o. (703) 305-3230	•		

Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCE	HING AUTHORITY				
To: PAUL D. GREELEY OHLANDT, GREELEY, RUGGIERO & PERLE, L.L.P.		PCT			
ONE LANDMARK SQUA STAMFORD, CT 06901			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	17 OCT 2005	
Applicant's or agent's file	reference		FOR FURTHER	ACTION See paragraph 2 below	
40030647-02				occ paragraph 2 below	
International application N	o. Interna	tional filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04/38269		vember 2004 (16.		19 November 2003 (19.11.2003)	
International Patent Classif	ication (IPC) or both i	national classificat	tion and IPC		
IPC(7): H03F 3/45 and US	S C1.: 330/255, 262, 26	63, 265, 267			
Applicant				·	
AGILENT TECHNOLOG	IES, INC.				
1. This opinion contains	indications relating to	the following item	ns:		
Box No. I	ox No. I Basis of the opinion				
Box No. II	Priority	ty			
Box No. III	Non-establishment of	of opinion with re	regard to novelty, inventive step and industrial applicability		
Box No. IV	ox No. IV Lack of unity of invention				
Box No. V	Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI	Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
2. FURTHER ACTIO)N				
International Prelimin	ary Examining Authonis one to be the IPEA	rity ("IPEA") ex and the chosen I	cept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an a laternational Bureau under Rule 66.1bis(b) dered.	
IPEA a written reply	together, where appr ISA/220 or before the	opriate, with ame expiration of 22 r	endments, before t	PEA, the applicant is invited to submit to the the expiration of 3 months from the date of pority date, whichever expires later.	
3. For further details, see	notes to Form PCT/IS	SA/220.			
Name and mailing address Mail Stop PCT. Att		Date of complet	ion of this	Authorized officer Sylvin David For	

opinion

13 September 2005 (13.09.2005)

Khanh Van Nguyen

Telephone No. 571-272-1767

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.		
	•	
DCT/US04/38260		

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
···
Į.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/38269

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. State				
	N AD	Claims	1-7	YES
	Novelty (N)		NONE	
		Ciumis		
	Inventive step (IS)	Claims	1-7	YES
	• • •	Claims	NONE	NO
				VEO
	Industrial applicability (IA)		1-7	N10
		Claims	NONE	NO
input par of the fir current	1-7 meet the criteria set out in PCT Article rts is made effective and the others of the rst input terminal, the second input terminal from the first output terminal become zero 1-7 meet the criteria set out in PCT Article nade or used in industry.	input parts are nath, and the outpoon, and only the s	nade metrective in response to a lut terminal of the ineffective inputignals input to the effective input	t parts become high and the output parts are thereby amplified.

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes, and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where ongineally there were 15 claims and after amendment of all claims there are 11]: Claims 1 to 15 replaced by amended claims 1 to 11.
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14: claim 17 subdivided into amended claims 15. 16 and 17, new claims 20 and 21 added.

-Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under - Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1).

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submatted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.